

MODIS TECHNICAL TEAM MEETING

August 3, 1995

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were David Herring, Mike Heney, Steve Ungar, Catherine Harnden, Dorothy Hall, Dick Weber, Barbara Putney, Ed Masuoka, Bruce Guenther, Bill Barnes, Locke Stuart, Al Fleig, Chris Justice, and Michael King.

1.0 SCHEDULE OF EVENTS

Aug. 31 Data Quality Assurance Presentation by Bob Lutz to the
 Technical Team
Sept. 6 - 7 MODIS Calibration Peer Review at SBRC
Sept. 13 - 14 Snow and Ice Workshop, first day in Reston and second day
 at GSFC
Sept. 14 "MODIS-light" Follow-up Presentation by Paul Westmeyer
 and Steve Neeck to the Technical Team
Nov. 13 - 17 MODIS Science Team Meeting at GSFC

2.0 MINUTES OF THE MEETING

2.1 MODIS Project Reports

Weber announced that the MODIS Flight System Manual is currently in preparation and is due in September 1995.

Weber reported that SBRC announced recently that their move to El Segundo is canceled forever. This is good news to both SBRC and GSFC MODIS personnel.

Weber stated that the software review held recently at SBRC went well. He also announced that on Wednesday, Aug. 17, Tom Pagano, of SBRC, is presenting SBRC's concept for building a "MODIS-light".

2.2 MODIS Band 26

Kaufman distributed graphs illustrating the SWIR Top of Atmosphere (TOA) spectral response of MODIS band 26 as compared to the specification (see Attachment 1). He showed a second graph illustrating the actual versus the specification for transmittance of the new 1.375 μm band over a range of water vapor concentrations.

2.3 MCST Reports

Guenther announced that MCST is holding its vicarious calibration workshop next week at Wallops Flight Facility.

Guenther stated that MCST is running internal half-day audits on various algorithms for onboard calibration. Uncertainty analyses will be performed for discussion at the workshop next week. The idea is to discuss for given equations or coefficients, how will MCST make improvements or monitor instrument trends while MODIS is in orbit. Guenther said that MCST will track MODIS' onboard calibrators and will merge their data with vicarious calibration data for intercomparison.

2.4 SDST Reports

Masuoka reported that Rich Hucek is now the SDST interface to the MODIS Atmosphere Group and Robert Wolfe is the MODLAND interface. He noted that the Science Team also wants to ensure that someone from each discipline group is familiar with the integration process between the groups and SDST.

Guenther asked if there is a specific document by SDST to tell the rest of the Team how to properly prepare algorithms for delivery. Masuoka responded that the SDST Code Acceptance Process for the Beta software deliveries has been shared with the Science Team at previous meetings and should be available through MODARCH. Further the acceptance process is documented in the MODIS Software Management Plan which was completed in July and is undergoing final reviewing by SDST and MCST. Once the review is complete the document will be available on World Wide Web on the MODIS SDST Home Page at: <http://ltpwww.gsfc.nasa.gov/MODIS/SDST/Home.html>.

Masuoka reported that Yoram Kaufman had requested that Level 1B produce top of atmosphere reflectance. Guenther responded that version 1 of Level 1B will have reflectance as well as radiance.

Masuoka reported that SDST is in the process of connecting the MODIS Silicon Graphics Challenge computer, modis-xl, to an ATM (Asynchronous Transfer Mode) network at GSFC. This will enable the TLCF to download 1km AVHRR data sets from EDC. Chris Justice's workstations will also be connected to EDC via the ATM.

2.5 Snow and Ice Workshop

Hall announced that the agenda is complete for the upcoming Snow and Ice Workshop (see Attachment 2).

2.6 Adobe Acrobat

As a follow-up to last week's presentation regarding MAST's recommendations for document development and distribution, Herring and Heney delivered a demonstration of Adobe's Acrobat Exchange software. Herring reiterated that Adobe's Portable Document Format (PDF) provides a means for platform-independent, fully electronic document exchange. King stated that EOS Project Science Office supports the use of Acrobat for document exchange and has rendered PDF copies of all ATBDs available via anonymous FTP.

3.0 ACTION ITEMS

1. *Herring*: Prepare a response to Mougini-Mark's request to provide a short (one page) statement on how each MODIS Science Team member's investigation(s) contribute to the educational objectives of MTPE and EOS.
2. *Herring*: Collect specific questions from MODIS Team members to forward to Steve Neeck and Paul Westmeyer, so that they may incorporate responses into their next presentations, tentatively scheduled for Aug. 17.
3. *Masuoka*: Cost out bringing up a MODIS test string in January 1996 at EDC and forward the information to Steve Kempler.
4. *Discipline Group Leaders*: Identify contacts with appropriate IDS investigators, and encourage regular interaction.
5. *MCST*: Consider Yoram Kaufman's concerns and prepare an explanation or brief presentation for the Technical Team as to which unit is best suited for MODIS' Level 1 data--radiance or reflectance.
6. *MAST*: Begin preparing the Agenda for the next MODIS Science Team Meeting--begin planning topics for 2-hour to half a day roundtable discussions and team members to moderate them. Also, allow time for a 1- to 1.5-hour Discipline Group Splinter Session on the first day.
7. *Dave Diner & Ed Masuoka*: MODIS and MISR need to settle on a protocol(s) to deal with Level 1 and Level 2 data sets to be passed between the two teams to produce joint products. Report at the next SWAMP Meeting.
8. *Guenther*: Report the modeled results of the 1,000K source for SBRC's integration and alignment collimator to the Technical Team. [These data are forthcoming.]
9. *Fleig and Ungar*: Interact with the group leaders to develop a MODIS data simulation plan for review at the next Science Team Meeting. [Work on this item is still in progress. Simulated data are now available via FTP, and a white paper is forthcoming from Fleig.]

4.0 ATTACHMENTS

NOTE: The attachments referenced below are maintained in MODARCH and are available for distribution upon request. Please contact David Herring, MAST Technical Manager, at (301) 286-9515, Code 920, NASA/Goddard Space Flight Center, Greenbelt, MD 20771 if you desire copies of any attachments.

1. "MODIS Band 26: SWIR Top of Atmosphere Spectral Radiances" and "New 1.375 μm Transmittance" viewgraphs presented by Yoram Kaufman
2. Snow and Ice Workshop Agenda, by Dorothy Hall